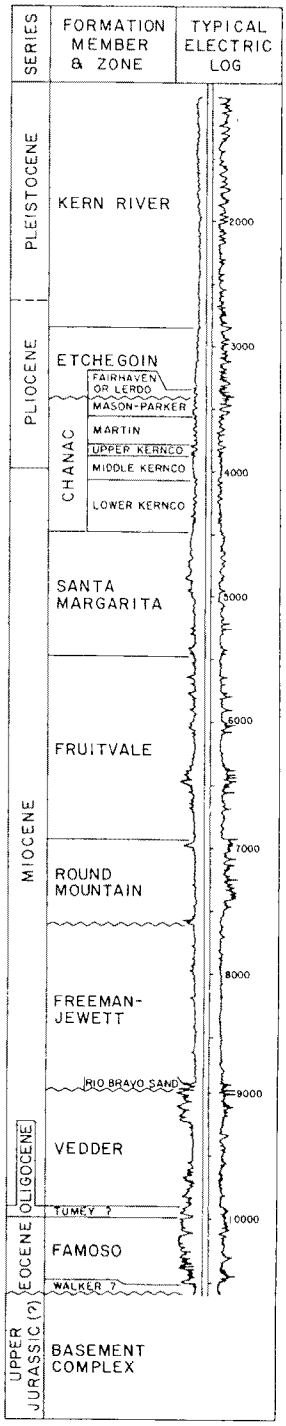
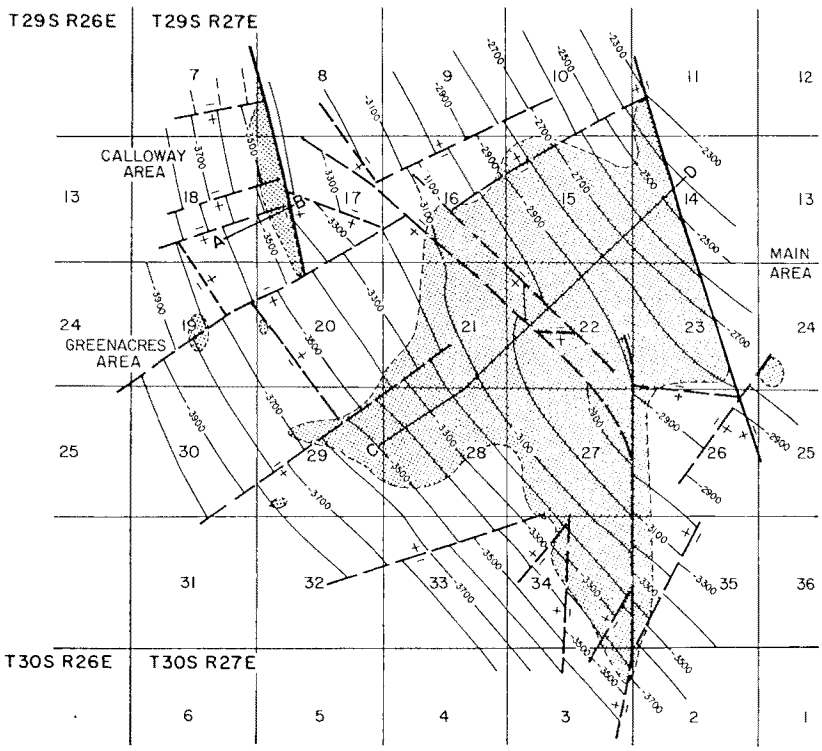
CALIFORNIA
OIL & GAS FIELDS
AQUIFER EXEMPTION
VOLUME 1B

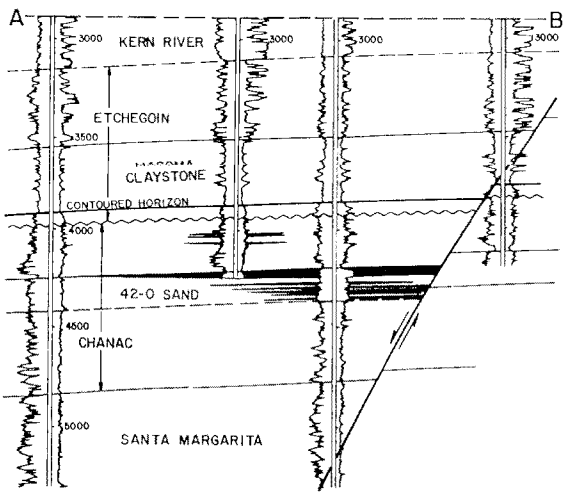
(Public Hearing Exhibit #1

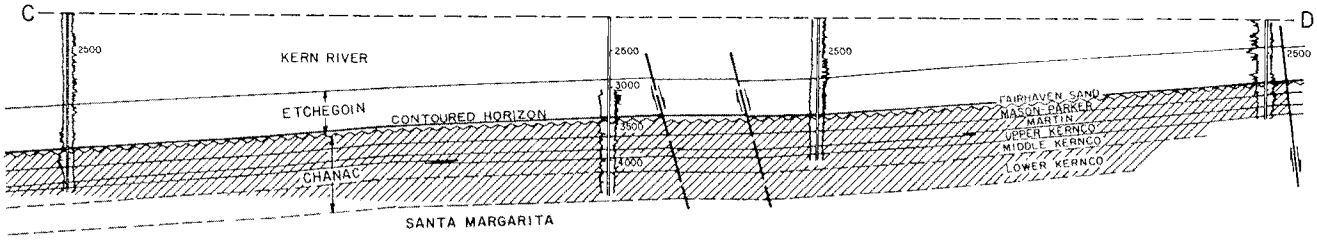
FRUITVALE OIL FIELD





CONTOURS ON TOP OF BASAL ETCHEGOIN SAND (FAIRHAVEN OR LERDO)





LOCATION 1 mile west of Bakersfield

TYPE OF TRAP See areas

ELEVATION 400

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production: Oil (bbl)	Initial daily production: Gas (Mcf)	Date of completion
Fairhaven	Gulf Oil Corp. "KCL-B" 1	Pacific Eastern Production Co. "Fruitvale" 1	21 29S 27E	MD	170	N.A.	Feb 1928

Remarks

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth: Strata	At total depth: Age
Signal Oil and Gas Co. "KCL" 33-34	Same	Nov 1955	34 29S 27E	MD	11,577	Granite	Lt Jur (?)

PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic: Age	Geologic: Formation	Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required

PRODUCTION DATA (Jan. 1, 1973)

1972 Production: Oil (bbl)	1972 Production: Net gas (Mcf)	1972 Production: Water (bbl)	1972 Proved acreage	1972 Average number producing wells	Cumulative production: Oil (bbl)	Cumulative production: Gas (Mcf)	Peak oil production: Barrels	Peak oil production: Year	Total number of wells: Drilled	Total number of wells: Completed	Maximum proved acreage
1,049,215	368,907	7,716,909	2,785	354	100,222,118	35,010,099	3,587,093	1954	721	609	3,580

STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT See areas.

BASE OF FRESH WATER See areas.

CURRENT CASING PROGRAM See areas.

METHOD OF WASTE DISPOSAL See areas.

REMARKS

REFERENCES See areas.

CALIFORNIA DIVISION OF OIL AND GAS

CALLOWAY AREA

FRUITVALE OIL FIELD

Kern County

LOCATION See map sheet of Fruitvale Oil Field

TYPE OF TRAP Faulted homocline

ELEVATION 400

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production: Oil (bbl)	Initial daily production: Gas (Mcf)	Date of completion
40-7 42-0	Union Oil Co. of Calif. "KCL" 26-17	Same as present	17 29S 27E	MD	87	72	Sep 1957

Remarks.

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth: Strata	At total depth: Age
Texaco Inc. "Camp-West-Lowe" 1	The Texas Co. "Camp-West-Lowe" 1	May 1938	7 29S 27E	MD	10,154	Granite	Lt Jur (?)

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic: Age	Geologic: Formation	Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
40-7	4,050	12	late Miocene	Chanac	N.A.	N.A.	II
42-0	4,150	24	late Miocene	Chanac	16 - 24	N.A.	II

PRODUCTION DATA (Jan. 1, 1973)

1972 Production: Oil (bbl)	1972 Production: Net gas (Mcf)	1972 Production: Water (bbl)	1972 Proved acreage	1972 Average number producing wells	Cumulative production: Oil (bbl)	Cumulative production: Gas (Mcf)	Peak oil production: Barrels	Peak oil production: Year	Total number of wells: Drilled	Total number of wells: Completed	Maximum proved acreage
37,043	17,138	845,633	150	10	1,396,864	488,926	237,396	1960	34	20	190

STIMULATION DATA (Jan. 1, 1973)

Type of	(Date	Steam, oil/water equivalent)	Maximum used for injection
--			

SPACING ACT Applies

BASE OF FRESH WATER 3,000

CURRENT CASING PROGRAM 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL 823,680 bbl. of waste water was injected during 1972 into one disposal well.

REMARKS

REFERENCES Hluza, A.G., Calloway Area of Fruitvale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

CALIFORNIA DIVISION OF OIL AND GAS

[illegible] OIL FIELD

Kern County

GREENACRES AREA

LOCATION See map sheet of Fruitvale Oil Field

TYPE OF TRAP Permeability barriers

ELEVATION 400

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production: Oil (bbl)	Initial daily production: Gas (Mcf)	Date of completion
Lerdo	Reed and Billington "Billington" 1	C.W. Teater "Billington" 1	19 29S 27E	MD	117	N.A.	Dec 1953
Chanac	Reed and Billington "Billington" 2	Trico Oil and Gas Co. "Billington" 2	19 29S 27E	MD	33	N.A.	Mar 1954

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth: Strata	At total depth: Age
Buttes Gas & Oil Co. "Denio Community" 1	Same	[illegible]	[illegible]	MD	9,772	Vedder	early Mio

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic: Age	Geologic: Formation	Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
Lerdo	4,300	60	Pliocene	Etchegoin	20	N.A.	II
Chanac	4,400	30	late Miocene	Chanac	19	N.A.	II

PRODUCTION DATA (Jan. 1, 1973)

1972 Production: Oil (bbl)	1972 Production: Net gas (Mcf)	1972 Production: Water (bbl)	1972 Proved acreage	1972 Average number producing wells	Cumulative production: Oil (bbl)	Cumulative production: Gas (Mcf)	Peak oil production: Barrels	Peak oil production: Year	Total number of wells: Drilled	Total number of wells: Completed	Maximum proved acreage
0	0	0	0	0	38,741	0	6,390	1954	7	3	20

STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl, Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT Applies

BASE OF FRESH WATER 3,500

CURRENT CASING PROGRAM 11 3/4" cem. 300; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL

REMARKS The last producing well was abandoned November 1969.

REFERENCES:

CALIFORNIA DIVISION OF OIL AND GAS

FRUITVALE OIL FIELD

Kern County

MAIN AREA

LOCATION See map sheet of Fruitvale Oil Field

TYPE OF TRAP Faulted homocline with permeability variations

ELEVATION 400

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production: Oil (bbl)	Initial daily production: Gas (Mcf)	Date of completion
Fairhaven	Signal Oil and Gas Co. "Dixie Lee" 2	Dixie Lee Oil Co. No. 2	23 29S 27E	MD	160	N.A.	Mar 1936
Mason-Parker	Gulf Oil Corp. "KCL-B" 1	Pacific Eastern Production Co. "Fruitvale" 1	21 29S 27E	MD	170	N.A.	Feb 1928
Martin							
Santa Margarita	Michigan Oil Co. "KCL" 5-2	Standard Oil Co. of Calif. "KCL-5" 2	24 29S 27E	MD	68	N.A.	Dec 1929

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth: Strata	At total depth: Age
Signal Oil and Gas Co. "KCL" 33-34	Same	Nov 1955	34 29S 27E	MD	11,577	Granite	Lt Jur (?)

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic: Age	Geologic: Formation	Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
Fairhaven	3,000	50	Pliocene	Etchegoin	17	15	II
Mason-Parker	3,100	170	Pliocene	Chanac	18	N.A.	II
Martin	3,250	190	Pliocene	Chanac	22	15	II
Upper Kernco	3,400	150	Pliocene	Chanac	22	370	II
Middle Kernco	3,600	210	Pliocene	Chanac	18	215	II
Lower Kernco	3,800	380	late Miocene	Chanac	15	N.A.	II
Santa Margarita	4,500	75	late Miocene	Santa Margarita	23	135	II

PRODUCTION DATA (Jan. 1, 1973)

1972 Production: Oil (bbl)	1972 Production: Net gas (Mcf)	1972 Production: Water (bbl)	1972 Proved acreage	1972 Average number producing wells	Cumulative production: Oil (bbl)	Cumulative production: Gas (Mcf)	Peak oil production: Barrels	Peak oil production: Year	Total number of wells: Drilled	Total number of wells: Completed	Maximum proved acreage
1,012,172	351,769	6,871,276	2,635	344	98,786,513	34,521,173	3,580,703	1954	680	586	3,370

STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf, Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water Flood	1962	9,712,859	4

SPACING ACT Does not apply

BASE OF FRESH WATER 3,000

CURRENT CASING PROGRAM 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL 5,929,832 bbl. of waste water was injected during 1972 into 5 disposal wells.

REMARKS

REFERENCES Hluza, A.G., Main Area of Fruitvale Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 2 (1965).